Jackrabbit™ Low-Cost Single-Board Computer

Model BL1800:

• **Board Size:** 2.50" x 3.50" x 0.94" (64mm x 89mm x 24mm) • **Input Voltage:** 8VDC ~ 40VDC, switching regulator, 49mA typical @ 24VDC • **General Purpose I/O:** 14 bidirectional, 6 inputs, 4 outputs (CMOS compatible) • **High Power Outputs:** 3 sinking (1 Amp) and 1 sourcing (500mA) • **1 Analog Input:** 9-bit resolution, 8-bit accuracy, 0.1V ~ 2.8V input range, 75ms typical acquisition time • **2 Analog Outputs:** Filtered/buffered PWM outputs • **Processor:** Rabbit 2000, clock, 29.5MHz • **Memory:** SRAM 128K, flash 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timer with 2 match registers • **Serial Ports:** (2) RS-232 (or one with CTS/RTS) rated @ 1KV ESD, (1) RS-485 rated @ 15kV ESD, (1) 5V CMOS compatible (programming port), 2 serial ports can be clocked • **Serial Rate**: Selectable baud rates up to 115,200 bps (RS-232), 230,400 bps (RS-485). 5 Volt CMOS compatible port up to 7.37Mbps • **Additional Features:** watchdog/supervisor, time/date clock, and backup battery

Model BL1810:

Same as BL1800, except with 14.7MHz clock, 128K flash, linear regulator (7.5~25V), 3 sinking (200mA) and 1 sourcing (100mA) high-voltage outputs, and CMOS port baud rate of 3.69Mbps.

Model BL1820:

Same as BL1810, except with no battery backup, (2) RS-232 and (2) 5V CMOS compatible (programming port)

Jackrabbit™ Development Kit

Digi-Key Part No. 316-1000-ND (101-0363) Only **96.33**

Includes Jackrabbit BL1810, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C® SE software development system (not a trial version).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL1800	316-1079-ND	68.61	20-101-0356
Model BL1810	316-1080-ND	47.82	20-101-0357
Model BL1820	316-1081-ND	33.96	20-101-0358

Low-Cost Single-Board Computer

Features:

- Rabbit 3000™ microprocessor operating at up to 7.4MHz
- 512K SRAM and 512K flash memory options
- 26 Digital I/O: 16 protected digital inputs and 10 high-current digital outputs
- 8 Single-ended or 4 differential analog channels with Vcc monitoring option: 11-bit single-ended or 12-bit differential channels
- 3 PWM outputs
- Six serial ports
- Battery-backed real-time clock
- Watchdog supervisor

The LP3500 can be mounted to a panel or on a plastic-enclosure base.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Fox Tool Kit for 3500	316-1056-ND	138.60	101-0529
LP3500 Fox	316-1115-ND◆	137.91	20-101-0525

◆ ***RoHS Compliant***

Coyote™ BL2500 Ethernet-Enabled Single-Board Computer

Features:

- Rabbit 3000™ at 29.4 MHz
- 10Base-T, RJ-45
- 256K Flash Memory
- 128K SRAM
- Compact board size of 3.95" x 3.95" (100 x 100 mm)
- 24 digital I/O plus 1 A/D input and 2 D/A outputs along with 4 LEDs
- Six serial ports

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model BL2500	316-1179-ND	130.98	20-101-0575

Smart Screen OP7100 with Touchscreen

The Smart Screen's C-programmability provides the flexibility required for almost any display application. The Smart Screen is ideal for remote terminals, automated machinery, and control systems

Features:

- 1/4 VGA display (320 x 240 pixels)
- Touchscreen matrix
- Vertical or horizontal orientation
- Wide viewing angle
- 16 digital I/O
- Meets NEMA 4 water resistance

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Smartscreen OP7100 with Touchscreen	316-1175-ND	380.46	20-101-0303

Interface OP7200 with Touchscreen

Features:

- Small Size: 4.4" x 5.7" x 1.7" (112mm x 144mm x 43mm)
- 1/4 VGA LCM display (320 x 240 pixels) with white LED backlight
- 9-key keypad
- LCD controller and SRAM compatible with OP7100
- 4 Status LED's
- 24 Digital I/O
- Rabbit 2000® microprocessor operating @ 22.1MHz
- Audible alarm buzzer
- 128K SRAM and 256K flash memory standard
- One RJ-45 Ethernet port
- Four serial ports
- On-board backup battery
- Watchdog
- External reset input
- Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Intelligent Operator Interface	316-1154-ND◆	311.16	20-101-0535
20" Cable for Panel Mount Keyboard/display	316-1052-ND	10.40	540-0066

◆ ***RoHS Compliant***

Interface OP6800 with Ethernet Port

Features:

- 122 x 32 Graphic display
- 7-key keypad
- 7 LEDs
- 24 Digital I/O
- Rabbit 2000® microprocessor at 22.1MHz
- 128K static RAM and 256K flash memory
- One RJ-45 Ethernet port
- Four serial ports
- Battery-backable real-time clock, battery included
- Watchdog
- Reset generator
- Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP6800 with Ethernet Port	316-1060-ND	172.56	101-0492

RabbitCore™ Application Development Kits

Serial to Ethernet Kit

Designers now have a Serial-to-Ethernet Application Kit that is easy to use. The simple 3-Step Setup for transmitting data from a digital volt meter via a serial port to a TCP/IP stream enables even the newest user to quickly develop a Serial-to-Ethernet application. The kit features digital volt meter software libraries, sample programs and a menuing system, in addition to the Dynamic C® integrated development environment.

Includes:

• RCM3010 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • DB9 Null Modem Cable • 10-pin® DB9 Conversion Cable • Ethernet Crossover Cable • Getting Started manual • Keypad/display unit • AC adapter (U.S./Canada only)

316-1042-ND (101-0689) **241.86**

Embedded PLC Application Kit

This kit enables a Rabbit 3000 based single-board computer to be programmed using a standard software environment that is commonly used to program PLC's (Programmable Logic Controllers).

Features:

- Communication parameters are configurable using the Embedded PLC Utility for the Rabbit Processor
- Rabbit 3000 @ 44.2MHz
- 10Base-T, RJ-45 (standard)
- Flash Memory: 512K
- SRAM: 256K + 512K
- Digital Inputs: 16
- Digital Outputs: 8
- Analog Inputs: One 10-bit resolution
- Analog Outputs: Two 9-bit PWM
- 6 serial ports

316-1120-ND (101-1108) **415.11**

RCM4010 RabbitCore SMB Network Storage Application Kit

This kit enables a RabbitCore module to use the SMB (Server Message Block) protocol, more commonly known as Windows File Sharing, for a high-capacity storage space over a network connection.

Features:

- Core Module: RabbitCore RCM4010
- IDE Hard Drive: 250 GB
- Hard Drive Chassis: Eagle Consus NAS with power supply
- Power Supply: 12VDC; 120/240VAC
- Rabbit USB programming cable

316-1156-ND (101-1218) **241.86**

RCM4300 RabbitCore Simple Sensor Application Kit

The Simple Sensor Application Kit provides sample applications based on 1-Wire devices to help users better understand and implement the 1-Wire communications bus using a prototyping board and a RabbitCore module

Kit Contents:

- RCM4300 RabbitCore Development Kit
- Simple Sensor Protoype Board with 1-Wire devices
- DS2406 SPST addressable switch, DS18B20 temperature sensor, DS2450 A/D converter, DS2480B line driver
- Complete Dynamic C software CD with several sample programs
- Universal Power Supply

316-1178-ND (101-1288) **241.86**